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ANNUAL REPORT OF THE ROYAL BOTANIC GARDEN FOR THE YEAR 1887-88.

No. 21G, dated Calcutta, the 15th May 1888.

From—DAVID PRAIN, ESQ., M.A., M.B., Acting Superintendent, Royal Botanic Garden, Calcutta,

To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to submit herewith the One Hundred and First Annual Report of the Royal Botanic Garden.

ANNUAL REPORT OF THE ROYAL BOTANIC GARDEN FOR THE YEAR 1887-88.

No great change occurred in the garden during the year. Some minor improvements were effected. One more entrance gate was provided with a suitable durwan's lodge. A new road was made from the picnic banyan to the tree-nursery. This supplies a felt want, and forms the first instalment of a road system that will open up the part of the garden occupied till 1872 by the Agri-Horticultural Society, where the shrubs and trees are now in a condition worthy of being exhibited. This system will provide an alternative entrance to the gardens from the Andul Road. A considerable portion of one of the conservatory houses was replanted. Plants of the giant water lily (*Victoria regia*) were grown in several of the garden lakes. They attracted visitors largely, and though, as is usual, nearly all perished in the cold weather, seedlings have been raised in the nurseries for the ensuing year. The season being favourable to vegetation, and the number of plants exceeding that of former years, the show of orchids was finer than ever. Five separate attempts at encroachment on the boundary of the garden have been made during the year. All of these were successfully repelled, but the frequency of the occurrence, which has taken place in spite of the existence of a well-defined series of boundary pillars, has rendered it necessary to address Government for instructions as to the best means for preventing such disputes.

Economic plants.

2. Notwithstanding the failure of parties interested to devise a satisfactory machine for cleaning *Rheea* fibre, this plant has been in greater request than ever. The demand for seeds and plants of the rain-tree (*Pithecolobium Saman*) was very extensive. This tree, a native of America, the history of whose introduction is narrated in the Garden Reports from 1878—81, is already well known in Bengal. Its timber is not valuable, but it grows rapidly, gives excellent shade, and is a useful nurse if planted with slower growing trees, to be cut down when the latter are sufficiently established. The reason for the suddenly increased demand was the statement that the rain-tree will grow on *Usar* soil, and that such soil can thus be reclaimed. *Usar* soil is barren: what is apparently meant is that the tree will grow on soil impregnated with *reh* salts. Such soil is not necessarily infertile, though without special treatment it may not afford crops except during the rains. The effects of the presence of trees may easily explain the absence of efflorescence of the *reh* salts without much improvement in the nature of the soil, nor would it be surprising to find that after a series of years of rain-tree cultivation analysis of the soil showed little change. But the cultivation of the tree is simple, and must increase the amenity of such districts; while its profuse crop of sweet pulpy pods, which cattle greedily eat, ripening as it does in April and May, supplies a valuable fodder when usually fodder is most scarce. Mahogany and other economic trees and plants were propagated and distributed to the fullest extent of which the garden is capable. A quantity of a special kind of wheat which grows in Mexico at an elevation of 11,000 feet was sent by the Secretary of State for India for experimental cultivation in Bengal. This was sent to Sikkim. It was received in March 1887, and had to be kept till October, the proper season for sowing. When it was sown unfortunately none of the seed germinated. In April 1887 a consignment of *Eragrostis Abysinnica*, or Teff, was also sent by the Secretary of State for India for experimental sowing. This grain is a native of Abysinnia at an elevation of 6,000 feet.

It was sown both in Chota Nagpore and in the Sonthal Pergunnahs, but has not been successful in either locality.

3. The Herbarium was considerably enriched during the year. A set of plants of the large natural order *Euphorbiaceæ*, which had been placed at the disposal of Sir J. D. Hooker while describing that family for the *Flora of British India*, has been returned by the author. Each sheet is named by the author's own hand, its value as a type specimen being thus rendered priceless. From Kew the Director, Mr Thiselton Dyer, C.M.G., has sent many valuable specimens; from St. Petersburg Dr Regel and Mr. Maximowicz sent some valuable specimens which had been particularly asked for; Dr. Garcke of Berlin showed the same courtesy regarding some types which do not exist elsewhere; a beautiful set of Austro-Hungarian plants was presented by Dr. Kerner of Vienna; these, with a named collection from Mr. Medley-Wood of Natal and some critical specimens from Baron Von Müller of Melbourne, complete the extra-Asian contributions. Among Indian additions the chief place is due to the large and beautiful collection of rarities from Burma and the Shan Hills sent by General H. Collett, C.B. There were also received a fine collection from the Sikkim-Nepal frontier made by a Bhotea employed by Mr. Pantling, and an equally fine one made by a garden collector in the Chittagong Hill Tracts. Many rare things were also sent by Mr. G. Mann from Assam, Khasia, and Sylhet; Mr. J. F. Duthie of Saharanpur contributed a large number of named North-West Himalayan plants, and Major Sedgwick, R.E., a few interesting specimens from Kashmir.

Herbarium.

4. Perhaps the most notable event of the year has been the transference of the correspondence of Dr. Wallich, Superintendent here between 1817—46, from the Library of the Royal Gardens at Kew to this Library. It constitutes 33 large volumes, and extends from 1794—1849. Some less valuable, but still highly interesting, botanical papers relating to Bengal and Assam accompanied the Wallichian correspondence. For the whole we are indebted to the good will and liberality of the distinguished Director of Kew, Mr. Thiselton Dyer, C.M.G., F.R.S.

5. The interchange and distribution department was particularly active. More plants were distributed than in any former year. This was in great measure due to the impetus given to roadside planting by the enlightened action of the Government of Bengal in the Department of Agriculture. Of plants 11,966 were received, against 67,854 given out. Of seeds 773 packets were received, against 2,714 given out. The names of all donors and recipients appear in the appendices to the report.

6. The Lloyd Botanic Garden at Darjeeling was under the charge of Mr. W. Kennedy. The ravages of potato-disease in Sikkim and the Khasia Hills have given a shock to the introduction of English tubers recommended in former reports. The improvement of quality noticed in 1885-86 has not continued. In 1886-87 it was found that English seed generally had turned out waxy and tasteless. The deterioration in quality, in all probability due to altered climatic conditions, has been accompanied by impaired resisting power, and they have fallen a prey to disease. Without raising any question as to the source of the disease, which those interested in introducing English seed not unnaturally declare to have previously existed in India, or at least deny having introduced with English seed, the fact remains that English tubers are particularly liable to be attacked. It seems desirable that seed from Malta, Australia, or elsewhere, where the conditions of growth differ less widely from those in the Indian hills, be imported rather than English ones.

7. The budget allotments of both Calcutta and Darjeeling gardens were spent in full. At Calcutta Rs. 784-11-6 were realised from the sale of surplus plants, or Rs. 615-4-6 below the amount estimated, and at Darjeeling garden produce brought in a revenue of Rs. 961-12—an excess of Rs. 661-12 over the amount estimated.

8 Dr. King was absent on privilege leave from 27th June to 20th September 1887, and his duties during the interval were undertaken by me in addition to my own as Curator of the Herbarium. Mr. H. Bahr was Curator of the garden during the year; Mr. W. Kennedy, as already stated, held charge of the Darjeeling garden; and Mr. William McHardy was Assistant Curator at Calcutta.

9. The usual appendices, four in number, are attached.

APPENDIX I.

Statement showing plants received from 1st April 1887 to 31st March 1888.

From whom received.	Wardian cases.	Boxes.	Number of plants.
His Honour the Lieutenant-Governor	.....	.....	1
Government House Garden, Calcutta	.....	.....	10
Royal Garden, Kew, London	1	2	179
Botanic Garden, Durban, Natal	.....	1	19
Ditto, Hong-Kong	3	.....	35
Ditto, Singapore	1	2	443
Ditto, George Town, Demerara	2	.....	96
Ditto, Mauritius	.....	.....	1
Ditto, Ootacamund	.....	.....	122
Ditto, Saharanpur	.....	1	12
Ditto, Darjeeling	.....	9	185
Agri-Horticultural Society, Calcutta	.....	.....	298
Ditto, Rangoon...	.....	1	97
Zoological Garden, Calcutta	.....	.....	176
Eden Garden, ditto	.....	.....	21
Public Garden, Allahabad	.....	7	129
Victoria Garden, Bombay	3	.....	89
W. Bull, Esq., London	1	.....	68
Earl of Annesley, Ireland	2	.....	24
Mrs. S. T. Apcar, Garden Reach	.....	.....	269
H. G. Batten, Esq.	.....	.....	121
W. G. Bartlett, Esq., Calcutta	.....	.....	72
J. D. Beglar, Esq., Chogda	.....	.....	36
J. Cornelius, Esq., Calcutta	.....	.....	4
Major Cooke, Rangoon	.....	.....	3
C. Creagh, Esq., Assistant Resident, Laroot	4	.....	150
Lieut. F. C. Colomb, Shillong	.....	.....	15
Brigadier-General H. Collett, Upper Burma	.....	.....	2
Dr. A. Eteson, M.D., Khasia Hills	.....	.....	6
G. Barton Groves, Esq., Rangoon	.....	4	254
J. H. Gilbert, Esq., ditto	.....	3	345
A. O. Hume, Esq., Simla	.....	1	21
H. C. Johnston, Esq., Singapore	5	1	189
S. J. Kilby, Esq., Calcutta	.....	.....	33
J. L. Lister, Esq., Kalimpong	.....	2	46
Colonel Laughton, Mandalay	.....	1	3
Rev. W. Kiefel, Hazaribagh	.....	.....	156
Dr. S. C. Mackenzie, M.D., Calcutta	.....	.....	3
G. Mann, Esq., Shillong	.....	13	1,243
A. J. Mein, Esq., ditto	.....	.....	14
E. H. Man, Esq., Andamans	3	1	186
C. Maries, Esq., Durbhunga Raj Garden	.....	4	161
C. Nickels, Esq., Jaunpur	.....	1	2
J. Orr, Esq.	.....	.....	18
Colonel M. C. Perreau, Calcutta	.....	.....	39
P. Playfair, Esq., Alipore	.....	.....	4
R. Pantling, Esq., Mungpoo	.....	7	800
G. McD. Peche, Esq., Moulmein	.....	2	450
J Parks, Esq., Kalimpong	.....	13	869
Mrs. H. S. Renolds, ...	.....	1	7
A. Simson, Esq., Calcutta	.....	.....	2
Captain Sanders, S.S. *Rajputana*	.....	2	13
Collected by the Superintendent in Darjeeling and Bombay ...	.....	.....	93
Ditto Assistant Curator in Mungpoo	.....	3	217
Ditto Mr. J. C. Prazer, Plant Collector, Burma ...	.....	11	3,524
Ditto Badul Khan, Plant Collector, Chittagong ...	.....	.....	11
Babu Prosonno Coomar Banerjee, Roy Bahadoor, Calcutta ...	.....	.....	110
„ P. C. Sein, Seebpore	.....	.....	5
„ S. P. Chatterjee, Calcutta	.....	.....	390
„ J. C. Biswas, ditto	.....	.....	1
Haree Malee, Nurseryman, Manicktollah	.....	.....	25
Bought at auction	.....	.....	1
Unknown donor	.....	.....	48
Total ...	25	93	11,966

APPENDIX II.

Statement showing plants sent out from 1st April 1887 to 31st March 1888.

To whom sent.	Wardian cases.	Boxes.	Number of plants
His Honour the Lieutenant-Governor	.....	.....	29
Government House Garden, Calcutta...	.....	.....	282
Royal Garden, Kew, London	3	4	333
,, Botanic Garden, Peradeniya, Ceylon	.....	2	139
Botanic Garden, Hong-Kong	1	.....	22
Ditto, George Town, Demerara	2	.....	60
Ditto, Singapore	1	.....	134
Ditto, Edinburgh	.....	1	67
Ditto, Cambridge	.....	1	49
Ditto, Saharanpur	.....	11	411
Lloyd Botanic Garden, Darjeeling	2	2	99
Government Garden, Ootacamund	.....	1	34
Ditto of Mauritius	4	.....	141
Compagnie Continentale d'Horticulture, Gand, Belgium ...	.....	1	114
Eden Garden, Calcutta	.....	.....	20
Zoological Garden, Alipore	.....	.....	139
Horticultural Garden, Lucknow	.....	3	44
Agri-Horticultural Garden, Lahore	.....	12	281
Ditto Society's Garden, Calcutta	.....	.....	144
Ditto ditto, Rangoon	.....	1	164
Ditto ditto, Madras	.....	1	14
Public Garden, Bhagulpore	.....	2	80
Ditto, Allahabad	.....	8	122
Victoria Garden, Bombay	4	1	162
Rambagh Garden, Amritsar	.....	1	15
William Bull, Esq., F.L.S., Chelsea, London	2	.....	100
Earl of Annesley, Ireland	2	.....	61
General R. Cadell, London	.....	1	72
H. S. Tadman, Esq., Hull	.....	1	24
Thomson, Esq., London	.....	1	61
R. M. Redhead, Esq.	1	1	101
Lady Bradford	.....	1	133
Mrs. Cochrane	.....	1	49
Assistant Conservator of Forests, Assam	.....	2	40
Ditto Superintendent of Forests, Penang	1	.....	40
Director of Land Records and Agriculture, Cawnpore, North-Western Provinces.	.....	3	75
Commissioner of Ajmere	.....	1	20
Deputy Comissioner, Dhubri	.....	5	94
Ditto, Ludhiana	.....	2	50
Officiating Deputy Commissioner, Dumka	.....	18	495
Subdivisional Officer, Feni	.....	.....	28
Ditto ditto, Tajpur	.....	6	75
Ditto Canal Officer, Koath	.....	5	125
Collector of Bhagulpore	.....	1	25
Magistrate and Collector, Chittagong	.....	18	277
Magistrate, 24-Pergunnahs, Alipore	.....	.....	1,005
Officiating Magistrate, Noakhally	.....	.....	495
Cantonment Magistrate, Barrackpore	.....	.....	100
Chairman, District Board, Monghyr	.....	23	1,000
Ditto, ditto ditto, Bogra	.....	2	50
Ditto, ditto ditto, Pooree	.....	7	175
Ditto, Local ditto, Purneah	.....	1	11
Ditto, ditto ditto, Behar	.....	10	210
Ditto, Branch Road Committee, Tangail	.....	.....	210
Ditto, Bogra Municipality	.....	6	160
Vice-Chairman, Dinagepore Municipality	.....	2	35
Secretary, Howrah Municipality	.....	.....	14
Ditto, Municipal Commissioners, Calcutta	.....	.....	130
Revelgunge Municipality	.....	9	185
Chupra ditto	.....	8	175
Secretary, District Board, Sarun	.....	10	250
Ditto, ditto, Midnapore	.....	.....	400

APPENDIX II—*continued.*

To whom sent.	Wardian cases.	Boxes.	Number of plants.
District Engineer, Bhagulpore District Board, Sultangunge ...	.....	3	62
Ditto, ditto, Ghogha ...	.....	5	100
Ditto, ditto, Bhagulpore ...	.....	6	125
Ditto, Khoolna	.....	8	140
Ditto, Noakhally	.....	.....	14
Ditto, Bhagulpore	.....	3	74
Ditto, Hazaribagh	.....	7	150
Ditto, Dacca	.....	21	400
Ditto, Road Cess Committee, Mymensing ...	.....	15	400
Ditto, ditto, Lohardugga ...	.....	10	260
Ditto, Chupra	.....	1	14
Executive Engineer, Dacca Division	.....	5	105
Sub-Overseer, Serajgunge	.....	2	100
Ditto, Pubna	.....	5	250
Ditto, Sara	.....	4	200
Sewan Local Board	.....	9	300
Chupra ditto	.....	11	235
Superintendent, Gunpowder Factory, Ishapur	.....	.....	572
Ditto, Gun Carriage do., Madras	1	.....	26
Ditto, Foundry and Shell Factory, Cossipore ...	.....	.....	392
Ditto, Assam Company, Limited	.....	2	50
Ditto, Presidency Jail, Calcutta	.....	3	1,956
Ditto, Jail, Alipore	.....	.....	463
Ditto, do., Mymensing	.....	3	55
Ditto, do., Hooghly	.....	.....	520
Ditto, do., Nuddea	.....	9	179
Ditto, do., Midnapore	.....	.....	350
Ditto, do., Burdwan	.....	.....	200
Ditto, Central Jail, Dacca	.....	2	50
Ditto, ditto, Buxar	.....	6	72
Ditto, Burrakar Iron Works	.....	3	75
Ditto, Water-Works, Singapore	10	.....	225
Manager, Baron's Tea Estate, Julpigoree	.....	2	50
Ditto, Planters' Stores and Agency Company, Limited, Calcutta.	.....	.....	12
Manager, Jeypur Government Khasmahals, Jeypur Hat ...	.....	11	235
Ditto, Government Estates, Jeypur	.....	1	10
Assistant Manager, Hutwa Raj	.....	2	14
Reformatory School, Hazaribagh	.....	6	64
Zilla School, Bogra	.....	1	24
La Martiniere School, Calcutta	.....	.....	24
C. M. S. Boys' Boarding School, Calcutta	.....	.....	376
Pratt School, Calcutta	.....	.....	100
Campbell Medical School, Calcutta	.....	.....	21
European Orphanage	.....	.....	100
London Mission, Bhowanipore	.....	.....	222
Church of England Zenana Mission, Calcutta	.....	.....	272
Ditto Mission House, Bhagulpore	.....	5	116
Ditto do. Society, Calcutta	.....	.....	364
Principal, Hooghly College	.....	.....	103
Ditto, Government Engineering College, Seebpore ...	.....	.....	18
St. Xavier's College, Calcutta	.....	.....	200
Presidency ditto, ditto	.....	.....	16
Howrah Hospital	.....	.....	260
Station ditto, Barrackpore	.....	5	755
Medical College, Calcutta	.....	.....	2,021
Presidency Hospital	.....	.....	2,000
Soldiers' Garden, Fort William, Calcutta	.....	.....	500
East Indian Railway	.....	.....	1,350
Eastern Bengal State Railway	.....	.....	3,300
District Traffic Superintendent, Tundla	.....	5	96
Howrah Police Station	.....	.....	9
I. G. Dockyard, Kidderpore	.....	.....	36
Bazar of the Little Sisters of the Poor	.....	.....	24
Hon'ble C. P. L. Macaulay, Calcutta...	.....	.....	3

APPENDIX II—*continued.*

To whom sent.	Wardian cases.	Boxes.	Number of plants.
Hon'ble Justice Norris, Calcutta	.....	.....	40
" C B. Garrett, ditto	.....	.....	399
" W. S. Whiteside, Madras	.....	.....	17
Bishop Parker, East Africa	1	.....	30
Rev. Dr. Medlycott, Ferozepore	.....	2	48
" Fr. J. Dumont, S.J., Ranchee	.....	1	8
" H. P. Boerresen, Rampore Haut	.....	19	3,052
" T. Bunckholdt, ditto	.....	2	48
E. T. Atkinson, Esq., Calcutta	.....	.....	100
A. A. Apcar, Esq.	.....	.....	9
A. G. Apcar, Esq.	.....	.....	600
J. Ballin, Esq., Seebpore	.....	.....	3
G. W. Bartlett, Esq., Calcutta	.....	.....	85
H. G. Batten, Esq., Sandoway	.....	2	32
J. D. Beglar Esq., Chogda	.....	6	187
C. E. Buckland, Esq., Ballygunge	.....	.....	400
J. Cornelius, Esq., Calcutta	.....	.....	3
Mrs. Van Cutsem, Garden Reach	.....	.....	312
" Day, Calcutta	.....	.....	134
N. Denison Esq., Perak	1	.....	35
James Duffus, Esq.	.....	.....	16
J. W Edgar, Esq., Calcutta	.....	.....	10
J. Macfadyen, Esq., ditto	.....	.....	6
M. B. Frizone, Esq., Hazaribagh	.....	1	240
J. Gammie, Esq., Mungpoo	.....	1	3
G. Gellatty, Esq., Calcutta	.....	.....	100
G. Barton Groves, Esq., Rangoon	.....	2	22
D. Hare Esq., Calcutta	.....	.....	35
Miss E. Harwood, ditto	.....	6	98
F. C. Hoff, Esq.	.....	.....	25
S. J. Kilby, Esq.	.....	.....	729 and ½ maund of Rheea root.
A. E. Linton, Esq., Seebpore	.....	.....	2
Major T. H, Lloyd, R.A., Poona	.....	6	64
Mrs. R. Lyall, Calcutta	.....	.....	2,223
J. Mackay, Esq.	.....	.....	24
J. Mackenzie, Esq., Calcutta	.....	.....	29
P. McMahon, Esq., Assam	.....	2	45
E. H. Man, Esq., Nicobar Islands	3	.....	91
Captain Mann, S.S. *Rewa*	.....	.....	6
E. F. Mondy, Esq., Dacca	.....	1	327
T. N. O'Connell, Esq., Simla	.....	1	27
R. Pantling, Esq., Mungpoo	.....	4	71
J. C. Parker, Esq., Calcutta	.....	.....	42
Captain Parrott, Burma	.....	.....	5
G. McD. Peche, Esq., Moulmein	.....	1	2
Colonel M. C. Perreau, S.C., Calcutta	.....	.....	24
J. Peter, Esq., South Sylhet	.....	2	1,675
Dr. J. G. Pilcher, F.R.C.S., Howrah	.....	1	74
P. Playfair, Esq., Alipore	.....	.....	52
T. A. Pope, Esq., Calcutta	.....	.....	4
Mrs. Ray, ditto	.....	.....	4
H. M. Read, Esq.	.....	1	24
Dr. E. Sanders, Azimgunge	.....	3	63
Dr. Scully, Calcutta	.....	.....	80
A. E. W. Sharpe, Esq., Howrah	.....	.....	8
C. J. Sharpe, Esq., Alipore	.....	.....	35
A. Simson, Esq., Calcutta	.....	.....	172
J. S. Slater, Esq., Government Engineering College, Seebpore	.....	.....	30
Dr. L. D. Spencer, Mount Abu, Rajputana	.....	1	12
Captain Symons, S.S. *Pekin*	.....	.....	322
A. R. Warwick. Esq., Bhopal	.....	.....	28
Mrs. E. Westmacott, Calcutta	.....	.....	6
R. E. Wright, Esq., Mhow, L.P.	.....	1	30

APPENDIX II—*concluded.*

To whom sent.	Wardian cases.	Boxes.	Number of plants.
Messrs. Jardine, Skinner and Co., Calcutta	.....	.....	17,500
„ Ernsthausen and Co., ditto	.....	.....	3½ maunds of Rheea stems.
„ Ewing and Co., Calcutta	.....	.....	2,640
„ Birkmyre Brothers, ditto	.....	.....	1 maund of Rheea stalks.
Nawab Ashanullah Khan Bahadoor of Dacca	.....	59	1,405
Rajah Bhogobutty Prossonno Roy, Calcutta	.....	.....	4
Babu Prosonno Coomar Banerjee, Rai Bahadoor, Calcutta ...	.....	.....	22
„ G. C. Datta, Seebpore	.....	.....	31
„ P. C. Sein, ditto	.....	.....	1,061 and two maunds of Rheea roots.
„ B. B. Ghose, Taki	.....	3	467
„ S. P. Chatterjee, Calcutta	.....	.....	706
„ A. P. Joshi, Howrah	.....	.....	8
„ A. Chatterjee, Kidderpore	.....	.....	2
„ A. L. Paul, Seebpore	.....	.....	12
„ B. C. Banerjee, Bollaghar	.....	.....	6
„ B. P. Bose, Government Engineering College, Seebpore	.....	.....	8
„ C. C. Ghosh, Calcutta	.....	.....	2
„ C. M. Bose, Howrah	.....	.....	27
„ D. N. Missra, Chunnunpur	.....	.....	15
„ D. D Mondul, Calcutta	.....	.....	3
„ G. C. Roy, Goneshpur	.....	.....	6
„ G. C. Dey, Government Engineering College, Seebpore	.....	.....	2
„ H. N. Banerjee, Calcutta	.....	.....	2
„ H. D. Ghosh, Oola	.....	.....	1
„ J. C. Biswas, Calcutta	.....	.....	28
„ J. N. Dass, Tangail	.....	.....	2
„ K. C. Chatterjee, Tarakeshwar	.....	.....	45
„ M. N. Bose, Cossipore	.....	.....	50
„ M. Chuckerbutty, Jehanabad	.....	.....	2
„ N. L Haldar, Calcutta	.....	.....	5
„ N. C. Mittra. ditto	.....	.....	2
„ N. L. Chatterjee, ditto	.....	.....	250
„ N. M. Bhattacharjee, Seebpore	.....	.....	1
„ O. C. Chatterjee, Chand Bhaug	.....	.....	34
„ P C. Ghosh, Calcutta	.....	.....	55
„ P. C. Pakrasee, Pubna	.....	10	200
„ R. K. Roy, Goneshpur	.....	.....	34
„ R. T. Ghosh, Bajey Seebpore	.....	.....	16
„ R. Maleah, Howrah	.....	.....	28
„ R. Haldar, Ranchi	.....	.....	14
„ S. N. Roy, Calcutta	.....	.....	6
„ T. N. Banerjee, ditto	.....	.....	12
„ T. D. Banerjee, ditto	.....	.....	11
„ W. C. Sen, Ramkristopore	.....	.....	5
„ Sooruj Deo Narayan Sing, Balegurh	.....	.....	10
„ Ram Bharose, Hoshangabad	.....	1	12
„ Suk Deo Prosad, ditto	.....	1	29
„ Tarinee Prosad, Bhagulpore	.....	6	125
M. H. S. Mahomed Quain Ali, Khetta Sarai ...	.....	2	50
Moonshee S. A. Ali, Hazaribagh	.....	2	15
„ Gollam Kaioom, Borehat	.....	1	3
Harree Mallee, Nurseryman, Manicktollah	.....	.....	8
Total ...	39	529	67,854

APPENDIX III.

Statement of seeds received from 1*st April* 1887 *to* 31*st March* 1888.

From whom received.	Number of parcels or packets.
W. T. Thiselton Dyer, Esq., F.R.S., C.M.G., Director, Royal Garden, Kew, London	12
Dr. Regel, Imperial Garden, St. Petersburg, Russia ...	136
Botanic Garden, Jamaica...	14
Ditto, Demerara	10
Ditto, Hong-Kong	1
Ditto, Singapore	2
Ditto, Trinidad	10
Ditto, Saharanpur	31
Sir Ferdinand Von Müller, F.R.S., Melbourne, Australia ...	11
Director, Botanic and Domain Gardens, Melbourne ..	81
M. le Directeur du Museum d'Historie Naturelle, Paris, France	2
Messrs. Reasoner Brothers, Manatee, Florida, U.S.A. ..	119
G. Wilson, Esq., Heatherbank, Weybridge Heath, near London	7
Max Leichtlin, Esq., Baden-Baden, Russia	17
Sig. O. Beccari, R. Museo *via* Romana, Florence, Italy ...	1
N. Cantlay Esq., Forest Department, Straits Settlements ...	1
William Scott, Esq., Royal Gardens, Mauritius	8
Superintendent, Agri-Horticultural Society's Garden, Madras	2
Superintendent, Horticultural Gardens, Lucknow, Oudh ...	45
Ditto, ditto, Lahore	18
Captain Cooke, S.S. *Nowshera*	1
Brigadier-General H. Collet, C.B., Meiktila, Burma ...	7
Rev. A. Campbell, Jamtara	1
Walter Campbell, Esq., Hazaribagh	1
J. Gammie, Esq., Mungpoo	11
J. L. Lister, Esq., Kalimpong	6
R. Pantling, Esq., Mungpoo	43
W. A. Kennedy, Esq., Darjeeling	128
Dr. D. D. Cunningham, Calcutta	1
Secretary, Agri-Horticultural Society of India, Calcutta ...	1
Captain A. W. Stiffe, Indian Marine, Port Officer, Calcutta ...	1
H. J. Batten, Esq.	1
Badul Khan, Plant Collector	39
Babu P. K. Banerjee, Rai Bahadur, Calcutta	1
,, Bishumbhur Ghosh, Taki	1
,, Ram Ch. Roy Chowdhurry, Seebpore	1
Unknown party	1
Total	773

APPENDIX IV.

Statement showing seeds distributed from the Royal Botanic Garden during the year 1887-88.

To whom sent.	Number of parcels or packets.
W. T. Thiselton Dyer, Esq., F.R.S., C.M.G., Director, Royal Garden, Kew, London	199
Sir J. D. Hooker, K.C.S.I., C.B., F.R.S., etc., Sunningdale *viâ* Arcott, near London	12
D. Morris, Esq., Royal Garden, Kew, London	274
Dr. Regel, Imperial Garden, St. Petersburg, Russia ...	16
Botanic Garden, Edinburgh	3
Ditto, Cambridge	4
Ditto, Hobart Town, Tasmania	1
Ditto, Brisbane, Queensland	3
Ditto, Buitenzorg, Java	10
Ditto, Hong-Kong	5
Ditto, Singapore	6
Ditto, Peradeniya, Ceylon	13
Ditto, Saharanpur	42
Ditto, Darjeeling	170
M. J. Linden, le Directeur, Compagnie d'Horticulture, Gand. Belgium	8
Herr Max Leichtlin, Botanique Horticole, Baden-Baden, Germany	95
Secretary to the Acclimatization Society, Brisbane, Queensland	3
Ditto, Agri-Horticultural Society of Burma, Rangoon ...	1
Ditto, ditto ditto, Madras	11
Ditto, ditto ditto, India, Calcutta ...	16
Ditto to the Chief Commissioner, Upper Burma, Mandalay ...	14
Ditto, Rangoon Municipality, Rangoon	2
Chief Secretary, Rangoon	1
Colonial Secretary, Mauritius	1
Superintendent, Horticultural Garden, Lucknow, Oudh ...	79
Ditto, Agri-Horticultural Garden, Lahore ...	27
Ditto, Cantonment Garden, Rangoon	1
Ditto of Jail, Jessore, Bengal ...	4
Ditto, Burrakur Iron Works, Burrakur... ...	7
William Bull, Esq., F.L.S., Chelsea	12
Messrs. James Veitch and Sons, Chelsea	1
,, Haage and Schmidt, Erfurt	3
,, Clephane. Brigend House, Scotland	14
,, Brown Shipley and Co., Liverpool	1
,, Dammann and Co., San Giovanni Teduccia, Italia ...	17
,, Stanley Price and Co., Sudder Street, Calcutta ...	1
Sir Ferdinand Von Müller, F.R.S., University, Melbourne ...	6
Sir Alexander Arbuthnot, K.C.S.I., London	17
Sir W. Bowman	28
Major-General H. Tottenham, Tasmania	13
W. H. Head, Esq., Horticultural Department, Crystal Palace, London	3
Dr. M. Foster, F.R.S., etc., Shelford, Cambridge, England ..	40
G. F. Wilson, Esq., Heatherbank, Weybridge Heath, London	59
Alexander Forbes, Esq., Aberdeen	18
A. Thomson, Esq., ditto	16
Surgeon-General C. D. Madden, Sommerset Buildings, Calcutta	1
Deputy Surgeon-General N. Catell, Cork, Ireland ...	12
Right Hon'ble the Earl of Annesley, Castlewellan, Ireland ...	31
A. Sprenger, Esq., Executive Engineer, Switzerland ...	3
Dr. J. Campbell Brown, Liverpool	1
James Inglis, Esq., Sydney, Australia	26
Well. Ed. Herr Dr. Burck, Sland's Plantentuin, Buitenzorg, Java	12
R. D. Hoyt, Esq., Proprietor, Bay View Nurseries, Florida, U.S.A.	226
P. W. Reasoner, Esq., Royal Palm Nurseries, Manatee, Fla., U.S., America	54
Deputy Commissioner, Chindwin	1
Ditto, Muzaffargarh	1
Ditto, in charge of Estates, Sultanpur ...	1

APPENDIX IV—*continued.*

To whom sent.	Number of parcels or packets.
Conservator of Forests, Sandwich Islands	2
Ditto, Northern Circle, Ootacamund ...	1
Deputy Conservator of Forests, Saugor	1
Ditto, Chota Nagpore Division, Ranchi	1
Ditto, Orissa Division, Cuttack ...	1
Ditto, Akola	3
Ditto, Julpigoree Division, Baksa Duar	1
Officiating Deputy Conservator of Forests, Chittagong Division, Rangamati	1
Acting Conservator of Forests, Northern Circle, Triplicane ...	3
Assistant Superintendent of Forests, Malacca	1
" Conservator of Forests, Ajmere, Merwara ...	27
District Forest Officer, Nilambar, Malabar district ...	1
Director of Settlements to Rev. Records Pl., Lahore ...	1
Acting Director of Agriculture, Bombay	2
C. C. Bush, Esq., Nazira	40
G. Marshall Woodrow, Esq., College of Science, Poona ...	1
Mrs Hogg, Simla	24
George Watt, Esq., M.B., C.I.E., on special duty with Government of India, Department of Revenue and Agriculture, Simla, Punjab	27
T. Curtis, Esq., Manager, Colgong Indigo Concern, Colgong, Bhagulpore	2
W. C. de Morgans, Esq., Executive Engineer, Public Works Department, Chettipett, *viâ* Niddavole, W. Godavari ...	2
Mrs. Shaw, Kanti, Mozufferpore, Tirhoot State Railway ...	1
The Dial Proprietor, Dayal Bagh, Huzrut Gunge, Lucknow ...	1
Colonel Robertson, 44 G.L.S., Manipur, *viâ* Cachar, Assam ...	27
E. Learight, Esq., Subdivisional Canal Officer, Koath, *viâ* Dumraon, Shahabad	2
H. W. Apperley, Esq., Dhokraba, Rajghat, Chumparun, Tirhoot State Railway	11
R. A. Townsend, Esq., Sibi, Beluchistan	13
E. B. Brown, Esq., Principal, Medical College, Lahore, Punjab	26
C. Maries, Esq., Morar, Gwalior, C.I.	19
W. R. Bright, Esq., Offg. Collector of Chumparun, Motiharee, Behar	2
J. Cameron, Esq., Lall Bagh, Bangalore, Madras ...	1
M. R. Weld, Esq., Dents Gardens, Madras	24
George Thomas, Esq., Monghyr, Behar	2
The District Engineer, Bhagulpore	3
W. A. Inglis, Esq., C.E., Executive Engineer, Arrah, Behar ...	1
The Collector of Monghyr, Behar	2
William Campbell, Esq., Kurhurie Factory, *viâ* Batalia (Mozufferpore), Tirhoot	1
The Dewan of Cutch, Bhuj, Bombay	2
Ditto of Sahib Joonojudh State, Kathiawar... ...	2
R. S. Brunton, Esq., Municipal Office, Bombay	1
G. Carstensea, Esq., Superintendent, Victoria Garden, Bombay	1
F. S. P. Lily, Esq., Administrator, Porbander State, Kathiawar, *viâ* Bombay	1
W. Leonard, Esq., Superintendent of Jail, Bhagulpore, Behar	28
The Medical Officer in charge, Station Hospital, Dinagepore, Shahabad	73
The Officer in medical charge, Allahabad Station Hospital, Allahabad	43
M. H. S. Mahomed Quain Ali, Rais and Vakil, High Court, N.W.P., Khetri, Sorai, O. & R. Railway Station ...	4
The Executive Engineer, Aligarh Division, Ganges Canal, Aligarh	1
Rev. H. R. Boerresen, Ebenezer Mission Station, *viâ* Rampore Hât, Beerbhoom	1
W. B. Lowrie, Esq., Officiating Superintendent, Kurnafuli Association Ld., Hulda Valley, Chittagong	1
R. H. Reilly, Esq., 9, Canning Road, Allahabad ...	2
C. A. White, Esq., Assistant Engineer, Nasriganj, Sasseram ..	1

APPENDIX IV—*concluded.*

To whom sent.	Number of parcels or packets.
W. Kilby, Esq., N.B.S. Railway, Rungpore	1
F. R. S. Collier, Esq., Chairman, District Board, Rungore ...	5
J. Gammie, Esq., Resident Manager, Government Cinchona Plantation, Mungpoo	6
J. L Lister, Esq., Kalimpong, Darjeeling	3
R. F. Martin, Esq., Manager, Lakhibaria Tea Estate, Dhupguri, Julpigoree	1
C. P. Smith, Esq., Shikohabad, Mainpuri, Lower Ganges Canal	2
Rev. A. Campbell, Pokhuria, Govindpore, Manbhoom ...	1
J. F. Duthie, Esq., Director, Botanical Department, Northern India, Saharanpur	1
H. N. Read, Esq., Bengal Club, Calcutta	195
Lady Helen Blackwood, Government House, Calcutta ...	90
The Ordnance Officer, in charge of Arsenal, Fort William, Calcutta	10
S. J. Kilby, Esq., Calcutta	3
Colonel M. Perreau, ditto	5
H. Bahr, Esq., Curator, Royal Botanic Garden ...	47
M. Em. Labussiere, Agent, Compagnie des Messageries Maritimes, Calcutta	107
Babu Goluck Chander Mookerjee, Sub-Overseer, Nazirgunge	1
„ Bama Chunder Peramanik, Assistant Engineer, Public Works Department, Nazirgunge	2
„ Bishumbhur Lall, Mirzapur, North-Western Provinces	80
„ Gopal Chandra Dutta, Head Clerk, Royal Botanic Gardens, Calcutta	16
„ Abinash Chander Sen, Seebpore	1
„ Devendranath Bosu, Calcutta	20
„ Jadub Chunder Biswas, Calcutta	14
„ Netto Gopal Chatterjee, Pikeparah Nursery, Calcutta ...	10
„ P. Ghosh, Esq., Calcutta	1
„ Protap Narain Singh, Deputy Magistrate and Deputy Collector, Bankoora	2
„ Protab Chander Dey, Calcutta...	1
„ P. C. Sein, Overseer, Royal Botanic Garden, Seebpore	2
„ S. P. Chatterjee, Calcutta	1
„ Thakur Dass Banerjee, Superintendent, Government House Garden, Calcutta	1
Total ...	2,714

W. H. D'C.—Reg. No. 4813J—353—2-7-88.

FINANCIAL DEPARTMENT.

MISCELLANEOUS.

DARJEELING, THE 25TH JUNE 1888.

RESOLUTION.

READ—

The Annual Report of the Royal Botanic Garden, Calcutta, for the year 1887-88.

THE Report, which is one of considerable interest, shows that steady progress was made during the year. Among the plants cultivated in the Garden, the largest demands were made for the *rhea* and the rain-tree (*Pithecolobium Saman*). Mahogany trees were also propagated and distributed to a great extent. Many valuable contributions from well-known botanists were made to the Herbarium during the year. Among these, the set of plants of the large natural order *Euphorbiaceæ*, which were placed at the disposal of Sir Joseph Hooker, are of special value, as they have been returned by him bearing in his own handwriting the names given to them in his *Flora of British India*. The Library of the Botanic Garden also received a valuable acquisition in the transfer to it from the Royal Gardens at Kew, through the courtesy of the Director, Mr. Thiselton Dyer, of the correspondence of Dr. Wallich, extending from 1794 to 1849. The remarks made by the Superintendent in paragraph 6 of the Report, on the subject of the potato blight in Sikkim and the Khasia Hills, will be communicated to the Agricultural Department for consideration.

2. The thanks of Government are due to Dr. George King, F.R.S., for his admirable management of the Garden during the year.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

No. 113T—F.

COPY forwarded to the Superintendent of the Royal Botanic Garden, Calcutta, for information.

No. 114T—F.

COPY of this Resolution, with extract paragraph 6 of the Report, forwarded to the Director of Land Records and Agriculture, Bengal, for consideration.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

DARJEELING,
The 29th June 1888.